

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



MUNICIPAL NPDES PERMIT

issued to

Permittee:

The Metropolitan District P.O. Box 800 Hartford, Connecticut 06142-0800

Facility ID: 119-001

Permit ID: CT0100480

Permit Expires: September 28, 2010

Design Flow Rate: 7.5 mgd

Rocky Hill, Connecticut 06067

Location Address:

80 Goff Brook Lane

Rocky Hill WPCF

SECTION 1: GENERAL PROVISIONS

Receiving Stream: Connecticut River

This permit is reissued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and Section 402(b) of the Clean Water Act, as amended, 33 USC 1251, et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a N.P.D.E.S. permit program.

The Metropolitan District, ("Permittee"), shall comply with all conditions of this permit including the following sections of the **(B)** RCSA which have been adopted pursuant to Section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of Section 22a-430-3. To the extent this permit imposes conditions which are more stringent than those found in the regulations, this permit shall apply.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty to Comply
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (I) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- Final Determination (i)
- Public Hearings

- (k) Submission of Plans and Specifications. Approval.
- (I) Establishing Effluent Limitations and Conditions
- (m) Case-by-Case Determinations
- (n) Permit Issuance or Renewal
- (o) Permit or Application Transfer
- (p) Permit Revocation, Denial or Modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements
- (t) Discharges to POTWs Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this Section of the permit may be punishable as a criminal offense under Section 22a-438 or 22a-131a of the CGS or in accordance with Section 22a-6, under Section 53a-157b of the CGS.
- (E) The Permittee shall comply with Section 22a-416-1 through Section 22a-416-10 of the RCSA concerning operator certification.
- (F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the Permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (H) An annual fee shall be paid for each year this permit is in effect as set forth in Section 22a-430-7 of the RCSA. As of August 20, 2003 the annual fee is \$2,557.50.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in Section 22a-423 of the CGS and Section 22a-430-3(a) and 22a-430-6 of the RCSA, except for "Composite", "No Observable Acute Effect Level" (NOAEL), and "sewage", which are redefined below.
- (B) In addition to the above, the following definitions shall apply to this permit:
 - "----" in the limits column on the monitoring tables in Attachment 1 means a limit is not specified but a value must be reported on the DMR, MOR, NAR, and/or the ATMR.
 - "Annual" in the context of any sampling frequency found in Attachment 1, means the sample must be collected in the month of June.
 - "Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in Section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in Section 22a-430-3(a) of the RCSA.
 - "Bi-Monthly" means once every two months including the months of February, April, June, August, October, and December.
 - "Composite" or "(C)" means a sample consisting of a minimum of eight aliquot samples collected at equal intervals of no less than 30 minutes and no more than 60 minutes and combined proportionally to flow over the sampling period provided that during the sampling period when the peak hourly flow is normally experienced.
 - "Critical Test Concentration" or "(CTC)" means the specified effluent dilution at which the permittee is to conduct a single-concentration Aquatic Toxicity Test.
 - "Daily Composite Sample" or "(DC)" means a composite sample taken over a full operating day consisting of grab samples collected at equal intervals of no more than sixty (60) minutes and combined proportionally to flow; or, a composite sample continuously collected over a full operating day proportionally to flow.

- "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or, arithmetic average of all grab sample results defining a grab sample average.
- "Daily Quantity" means the quantity of waste discharged during an operating day.
- "Domestic Sewage" means sewage that consists of water and human excretions or other water-borne wastes incidental to the occupancy of a residential building or a non-residential building but not including manufacturing process water, cooling water, wastewater from water softening equipment, commercial laundry wastewater, blowdown from heating or cooling equipment, water from cellar or floor drains or surface water from roofs, paved surfaces or yard drains.
- "Geometric Mean" is the "nth" root of the product of "n" observations.
- "Grab Sample Average" means the arithmetic average of all grab sample analyses.
- "Infiltration" means water other than wastewater that enters a sewer system (including sewer system and foundation drains) from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.
- "Inflow" means water other than wastewater that enters a sewer system (including sewer service connections) from sources such as, but not limited to, roof leaders, cellar drains, yard drains, area drains, drains from springs and swampy areas, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.
- "Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.
- "In-stream Waste Concentration" or "(IWC)" means the concentration of a discharge in the receiving water after mixing has occurred in the allocated zone of influence.
- "Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l), otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in Section 22a-430-3(a) of the RCSA.
- "MGD" means million gallons per day.
- "Monthly Minimum Removal Efficiency" means the minimum reduction in the pollutant parameter specified when the effluent average monthly concentration for that parameter is compared to the influent average monthly concentration.
- "NA" as a Monitoring Table abbreviation means "not applicable".
- "NR" as a Monitoring Table abbreviation means "not required".
- "No Observable Acute Effect Level" or "(NOAEL)" means any concentration equal to or less than the critical test concentration in a single concentration (pass/fail) toxicity test, conducted pursuant to Section 22a-430-3(j)(7)(A)(i) of the RCSA, demonstrating greater than 90% or greater survival of test organisms at the CTC.
- "Quarterly", in the context of a sampling frequency, means sampling is required in the months of March, June, September, and December.
- "Sanitary Sewage" means wastewaters from residential, commercial and industrial sources introduced by direct connection to the sewerage collection system tributary to the treatment works including non-excessive inflow/infiltration sources.
- "Semi-Annual" in the context of a sampling frequency, means the sample must be collected in the months of June and December.
- "Septage" means any water or material withdrawn from a septic tank which is used to treat domestic sewage.
- "Sewage" means human and animal excretions and all domestic and such manufacturing wastes as may tend to be

detrimental to the public health. For purposes of this permit, sewage also includes excessive infiltration and inflow.

"Sludge" means solid, semi-solid or liquid residue generated from municipal, residential, commercial or industrial wastewater treatment processes exclusive of the treated effluent, including water treatment wastewater sludges.

"Transported" means trucked or hauled wastewater sludge taken to dedicated receiving facilities at the POTW.

"Twice per Month" when used as a sample frequency shall mean two samples per calendar month collected no less than 12 days apart.

"ug/l" means micrograms per liter

"Work Day" in the context of a sampling frequency means, Monday through Friday excluding official MDC holidays.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner of Environmental Protection ("Commissioner") has issued a final decision and found that continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on application #200200511 for permit reissuance, received on February 1, 2002 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit, if required after Public Notice, in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL LIMITATIONS AND OTHER CONDITIONS

- (A) The Permittee shall not accept any new sources of non-domestic wastewater conveyed to its POTW by any means other than its sanitary sewerage system unless the generator of such wastewater; (a) is authorized by a permit issued by the Commissioner under Section 22a-430 CGS (individual permit), or, (b) is authorized under Section 22a-430b (general permit), or, (c) has been issued an emergency or temporary authorization by the Commissioner under Section 22a-6k. All such non-domestic wastewaters shall be processed by the POTW via receiving facilities at a location and in a manner prescribed by the Permittee and approved by the Commissioner which are designed to contain and control any unplanned releases.
- (B) No new discharge of domestic sewage from a single source to the POTW in excess of 50,000 gallons per day may be authorized by the Permittee until the discharger has registered the discharge under the general permit for domestic sewage reissued by the Commissioner on June 12, 2002 pursuant to Section 22a-430b of the CGS.
- (C) The Permittee shall maintain a system of user charges or dedicated taxes or other fees sufficient to operate and maintain the POTW (including the collection system) and replace critical components.
- (D) The Permittee shall maintain a sewer use ordinance that is consistent with the Model Sewer Ordinance for Connecticut Municipalities prepared by the Department of Environmental Protection. The Commissioner of Environmental Protection alone may authorize certain discharges which may not conform to the Model Sewer Ordinance.
- (E) No discharge shall contain, or cause in the receiving stream, a visible oil sheen or floating solids; or cause visible discoloration or foaming in the receiving stream.
- (F) No discharge from this permitted source shall cause acute or chronic toxicity in the receiving water body beyond the Zone Of Influence (ZOI) specifically allocated to any discharge in this permit.
- (G) The Permittee shall maintain an alternate power source adequate to provide full operation of all pump stations in the sewerage collection system and to provide a minimum of primary treatment and disinfection at the water pollution control facility to insure that no discharge of untreated wastewater will occur during a failure of a primary power source.
- (H) The average monthly effluent concentration shall not exceed 15 percent of the average monthly influent concentration for CBOD₅ and Total Suspended Solids, for all daily composite samples taken in a thirty calendar day period.

- (I) Any new or increased amount of sanitary sewage discharge to the sewer system is prohibited where it will cause a dry weather overflow.
- (J) Sludge Conditions
 - (1) The Permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including but not limited to 40 CFR Part 503.
 - (2) If an applicable management practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is promulgated under Section 405(d) of the Clean Water Act (CWA), this permit shall be modified or revoked and reissued to conform to the promulgated regulations.
 - (3) The Permittee shall give prior notice to the Commissioner of any change(s) planned in the Permittees' sludge use or disposal practice. A change in the Permittees' sludge use or disposal practice may be a cause for modification of the permit.
 - (4) Testing for inorganic pollutants shall follow "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846 as updated and/or revised.
- (K) The limits imposed on the discharges listed in this permit take effect on the issuance date of this permit, hence any sample taken after this date which, upon analysis, shows an exceedence of permit limits will be considered non-compliance.
- (L) When the arithmetic mean of the average daily flow from the POTW for 180 consecutive calendar days exceeds 90% of the design flow rate, the Permittee shall develop and submit for the review of the Commissioner within one year of the 180th day, a plan to accommodate future increases in flow to the plant. This plan shall include a schedule for completing any recommended improvements and a plan for financing the improvements.
- (M) When the arithmetic mean of the average daily CBOD₅ or TSS loading into the POTW for 180 consecutive calendar days exceeds 90% of the design load rate, the Permittee shall develop and submit for the review of the Commissioner within one year of the 180th day, a plan to accommodate future increases in load to the plant. This plan shall include a schedule for completing any recommended improvements and a plan for financing the improvements.
- (N) On or before July 31st of each calendar year the main flow meter shall be calibrated in accordance with the manufacturers' specifications. The actual record of the calibration shall be retained onsite and, upon request, the Permittee shall submit to the Commissioner a copy of that record.
- (O) The Permittee shall operate and maintain all processes as installed in accordance with the approved plans and specifications and as outlined in the associated operation and maintenance manual and/or standard operating procedures for the purposes of the optimal removal of pollutants. This includes but is not limited to all recycle pumping systems, aeration equipment, aeration tank cycling, mixing equipment, anoxic basin, chemical feed systems, effluent filters or any other process equipment. The Permittee shall not bypass or fail to operate any of the approved equipment or processes without the written approval of the Commissioner.
- (P) The Permittee is hereby authorized to accept septage at the treatment facility or other locations as approved by the Commissioner.
- (Q) The temperature of any discharge from this permitted source shall not increase the temperature of the receiving stream above 85°F, or, in any case, raise the normal temperature of the receiving stream more than 4°F beyond the ZOI for thermal impact.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge shall not exceed and shall otherwise conform to the specific terms and conditions listed in this permit. The discharge is restricted by, and shall be monitored in accordance with Tables A through F incorporated in this permit as Attachment 1.
- (B) The Permittee shall monitor the performance of the treatment process in accordance with the Monthly Operating Report (MOR) and the Nutrient Analysis Report (NAR) incorporated in this permit as Attachment 2, Tables A and B, respectively.

SECTION 6: SAMPLE COLLECTION, HANDLING and ANALYTICAL TECHNIQUES

- (A) Chemical Analysis
 - (1) Chemical analyses to determine compliance with effluent limits and conditions established in this permit, shall be performed using the methods approved pursuant to the Code of Federal Regulations, Part 136 of title 40 (40 CFR 136) unless an alternative method has been approved in writing pursuant to 40 CFR 136.4 or as provided in Section 22a-430-3-(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 or the RCSA shall be analyzed in accordance with methods specified in this permit.
 - (2) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal, as defined in 40 CFR 136 unless otherwise specified.
 - (3) Grab samples shall be taken during the period of the day when the peak hourly flow is normally experienced.
 - (4) Samples collected for bacteriological examination shall be collected between the hours of 11 a.m. and 3 p.m. or at that time of day when the peak hourly flow is normally experienced. A chlorine residual sample must be taken at the same time and the results recorded.
 - (5) The Minimum Levels specified below represent the concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Attachment 1, Table B. Analyses for these parameters must include check standards within ten percent of the specified Minimum Level or calibration points equal to or less than the specified Minimum Level.

<u>Parameter</u>	Minimum Level
Antimony, Total	0.010 mg/l
Arsenic, Total	0.005 mg/l
Beryllium, Total	0.001 mg/l
Cadmium, Total	0.0005 mg/l
Chlorine, Total Residual	0.050 mg/l
Chromium, Total	0.005 mg/l
Chromium, Total Hexavalent	0.010 mg/l
Copper, Total	0.005 mg/l
Cyanide, Total	0.010 mg/l
Lead, Total	0.005 mg/l
Mercury, Total	0.0002 mg/l
Nickel, Total	0.005 mg/l
Selenium, Total	0.005 mg/l
Silver, Total	0.002 mg/l
Thallium, Total	0.010 mg/l
Zinc, Total	0.020 mg/l

- (6) The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible consistent with the requirements of this Section of the permit.
- (7) Effluent analyses for which quantification was verified during the analysis at or below the minimum levels specified in this Section and which indicate that a parameter was not detected shall be reported as "less than x" where 'x' is the numerical value equivalent to the analytical method detection limit for that analysis.
- (8) Results of effluent analyses which indicate that a parameter was not present at a concentration greater than or equal to the Minimum Level specified for that analysis shall be considered equivalent to zero (0.0) for purposes of determining compliance with effluent limitations or conditions specified in this permit.
- (B) Acute Aquatic Toxicity Test
 - (1) Samples for monitoring of Acute Aquatic Toxicity shall be collected and handled as prescribed in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA-821-R-02-012).
 - (a) Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 0-6°C until Acute Aquatic Toxicity testing is initiated.

- (b) Samples shall be taken prior to chlorination for Acute Aquatic Toxicity unless otherwise approved in writing by the Commissioner for monitoring at this facility.
- (c) Chemical analyses of the parameters identified in Attachment 1, Table B shall be conducted on an aliquot of the same sample tested for Acute Aquatic Toxicity.
 - (i) At a minimum, pH, specific conductance, total alkalinity, total hardness, and total residual chlorine shall be measured in the effluent sample and, during Acute Aquatic Toxicity tests, in the highest concentration of the test and in the dilution (control) water at the beginning of the test and at test termination. If total residual chlorine is not detected at test initiation, it does not need to be measured at test termination. Dissolved oxygen, pH, and temperature shall be measured in the control and all test concentrations at the beginning of the test, daily thereafter, and at test termination.
- (d) Tests for Acute Aquatic Toxicity shall be initiated within 36 hours of sample collection.
- (2) Monitoring for Acute Aquatic Toxicity to determine compliance with the permit condition on Acute Aquatic Toxicity (invertebrate) shall be conducted for 48 hours utilizing neonatal (less than 24 hours old) Daphnia pulex.
- (3) Monitoring for Acute Aquatic Toxicity to determine compliance with the permit condition on Acute Aquatic Toxicity (vertebrate) shall be conducted for 48 hours utilizing larval (1 to 14-days old with no more than 24 hours range in age) *Pimephales promelas*.
- (4) Tests for Acute Aquatic Toxicity shall be conducted as prescribed for static non-renewal acute tests in "Methods for measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA-821-R-02-012), except as specified below.
 - (a) For Acute Aquatic Toxicity limits, and for monitoring only conditions, expressed as a NOAEL value, Pass/Fail (single concentration) tests shall be conducted at a specified Critical Test Concentration (CTC) equal to the Acute Aquatic Toxicity limit, (100% in the case of monitoring only conditions), as prescribed in Section 22a-430-3(j)(7)(A)(i) of the RCSA.
 - (b) Organisms shall not be fed during the tests.
 - (c) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50±5 mg/L as CaCO₃ shall be used as dilution water in the tests.
 - (d) Copper nitrate shall be used as the reference toxicant.
- (5) For monitoring only conditions, toxicity shall be demonstrated when the results of a valid pass/fail Acute Aquatic Toxicity Test indicates less than 90% survival in the effluent at the CTC (100%).

SECTION 7: RECORDING AND REPORTING REQUIREMENTS

(A) The results of chemical analyses and any aquatic toxicity test required above in Section 5 and the referenced Attachment 1 shall be entered on the Discharge Monitoring Report (DMR) and reported to the Bureau of Water Management. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR must be received at the following address by the 15th day of the month following the month in which samples are collected.

Connecticut Department of Environmental Protection Bureau of Water Management, Planning and Standards Division ATTN: Municipal Wastewater Monitoring Coordinator 79 Elm Street Hartford, Connecticut 06106-5127

- (1) For composite samples, from other than automatic samplers, the instantaneous flow and the time of each aliquot sample collection shall be recorded and maintained at the POTW.
- (B) Complete and accurate test data, including percent survival of test organisms in each replicate test chamber, LC₅₀ values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR) and sent to the Bureau of Water Management at the address specified above in Section 7 (A) of this permit by the 15th day of the month following the month in which samples are collected.

(C) The results of the process monitoring required above in Section 5 shall be entered on the Monthly Operating Report (MOR) and Nutrient Analysis Report (NAR) forms, included herein as Attachment 2, and reported to the Bureau of Water Management. The MOR report shall also be accompanied by a detailed explanation of any violations of the limitations specified. The MOR and NAR must be received at the address specified above in Section 7 (A) of this permit by the 15th day of the month following the month in which the data and samples are collected.

SECTION 8: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any Acute Aquatic Toxicity sample analysis indicates toxicity, or that the test was invalid, a second sample of the effluent shall be collected and tested for Acute Aquatic Toxicity and associated chemical parameters, as described above in Section 5 and Section 6, and the results reported to the Bureau of Water Management (Attn: Aquatic Toxicity) via the ATMR form (see Section 7 (B)) within 30 days of the previous test. These test results shall also be reported on the next month's DMR report pursuant to Section 7 (A). The results of all toxicity tests and associated chemical parameters, valid and invalid, shall be reported.
- (B) If any two consecutive test results or any three test results in a twelve month period indicates toxicity, the Permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report, to the Bureau of Water Management (Attn: Aquatic Toxicity), for the review and written approval of the Commissioner in accordance with Section 22a-430-3(j)(10)(c) of the RCSA describing proposed steps to eliminate the toxic impact of the discharge on the receiving water body. Such a report shall include a proposed time schedule to accomplish toxicity reduction and the Permittee shall comply with any schedule approved by the Commissioner.
- (C) Section 22a-430-3(k) of the RCSA shall apply in all instances of bypass including a bypass of the treatment plant or a component of the sewerage collection system planned during required maintenance. The Department of Environmental Protection, Bureau of Water Management, Planning and Standards Division (860) 424-3704, the Department of Public Health, Water Supply Section (860) 509-7333 and Recreation Section (860) 509-7297, and the local Director of Health shall be notified within 2 hours of MDC learning of the event by telephone during normal business hours and by a written report submitted to the Department of Environmental Protection, Bureau of Water Management, Planning and Standards Division, Municipal Facilities Section within five days of each occurrence, or potential occurrence, of a discharge or bypass of untreated or partially treated sewage. If the diversion or bypass occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday through Friday), within two hours of MDC learning of the event notification shall be made to the Emergency Response Unit at (860) 424-3338 and the Department of Public Health at (860) 509-8000.

The written report shall contain:

- (1) The nature and cause of the bypass,
- (2) the time the incident occurred and the anticipated time which it is expected to continue or, if the condition has been corrected, the duration,
- (3) the estimated volume of the bypass or discharge of partially treated or raw sewage,
- (4) the steps being taken to reduce or minimize the effect on the receiving waters, and
- (5) the steps that will be taken to prevent reoccurrence of the condition in the future.
- (D) Section 22a-430-3(j) 11 (D) of the RCSA shall apply in the event of any noncompliance with a maximum daily limit and/or any noncompliance that is greater than two times any permit limit. The permittee shall notify in the same manner as in paragraph C of this Section, the Department of Environmental Protection, Bureau of Water Management, Planning and Standards Division except, if the noncompliance occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday through Friday) the permittee may wait to make the verbal report until 10:30 am of the next business day after learning of the noncompliance.
- (E) Section 22a-430-3(j) 8 of the RCSA shall apply in all instances of monitoring equipment failures that prevent meeting the requirements in this permit. In the event of any such failure of the monitoring equipment including, but not limited to, loss of refrigeration for an auto-sampler or lab refrigerator or loss of flow proportion sampling ability, the permittee shall notify in the same manner as in paragraph C of this Section, the Department of Environmental Protection, Bureau of Water Management, Planning and Standards Division except, if the failure occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday through Friday) the permittee may wait to make the verbal report until 10:30 am of the next business day after learning of the failure.

(F) In addition to the reporting requirements contained in Section 22a-430-3(i), (j), and (k) of the Regulations of Connecticut State Agencies, the permittee shall notify in the same manner as in paragraph C of this Section, the Department of Environmenter (860) 424-3704 concerning reason to believe would result in an entire this permit is hereby issued on September 29, 2005 Environmental Protection, Bureau of Water Management, Planning and Standards Division, Municipal Facilities Section (860) 424-3704 concerning the failure of any major component of the treatment facilities which the permittee may have

Ging McCarthy Cømmissioner

ATTACHMENT 1

Tables A through F

TABLE A

Discharge Serial Number (DSN): 001-1					Monitoring Location: 1	tion: 1				
Wastewater Description: Secondary Treated Effluent	Effluent									
Monitoring Location Description: Final Effluent	ent									
Allocated Zone of Influence (ZOI): 1,150 CFS			I	n stream Wa	In stream Waste Concentration (IWC): 1.0% (Allocated)	on (IWC): 1.0%	(Allocate	(F)		
		FLOW	TIME BAS	FLOW/TIME BASED MONITORING	FORING	INSTAI MOM	INSTANTANEOUS MONITORING	S	REPORT FORM	Minimum Level
PARAMETER	Units	Average Monthly Limit	Maximum Daily Limit	Sample Freq.	Sample Type	Instantaneous Limit or Required Range	Sample Freq.	Sample Type	-	Analysis See Section 6
Alkalinity	l/gm	NA	ΥN	NR	NA		Monthly	Grab	MOR	
Carbonaceous Biochemical Oxygen Demand (5 day), See Remark (d) Below	ng∕l	25 mg/l and 15% of Influent	90	3/Week	Daily Composite	Ϋ́Υ	NR	Ϋ́Z	DMR/MOR	
Chlorine, Total Residual, May 1" through September 30th See Remark (a) Below	l/gm	NA	NA	NR.	NA	0.2 - 1.5	4/Workday	Grab	DMR/MOR	
Fecal Coliform, May 1" through September 30 th See Remarks (b) and (c) Below	per100 ml	NA	NA	NR	NA	See remarks (b) and (c) below	3/Week	Grab	DMR/MOR	
Flow, Average Daily	MGD	7.5	•••••	Continuous ²	Daily flow	NA	NR	Ϋ́	DMR/MOR	
Nitrogen, Ammonia (total as N)	mg/l	NA		Monthly	Daily Composite	NA	NR.	AN AN	NAR	
Nitrogen, Nitrate (total as N)	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	NAR	
Nitrogen, Nitrite (total as N)	mg/l	NA	-	Monthly	Daily Composite	NA	NR	A'A	NAR	
Nitrogen, Total Kjeldahl	mg/l	NA		Monthly	Daily Composite	NA	N.	Αχ	NAR	
Nitrogen, Total	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	NAR	
Oxygen, Dissolved	mg/l	NA	NA	NR	NA		Workday	Grab	MOR	
Hd	S.U.	NA	NA	NR	AN	6-9	Workday	Grab	DMR/MOR	
Phosphate, Ortho	mg/l	NA		Monthly	Daily Composite	NA	NR	Ϋ́	NAR	
Phosphorus, Total	mg/l	NA		Monthly	Daily Composite	NA	NR	Ϋ́	NAR	
Solids, Settleable	ml/I	NA	NA	NA	NA		Workday	Grab	MOR	
Solids, Total Suspended, See Remark (d) Below	mg/l	30 mg/l and 15% of Influent	20	3/Week	Daily Composite	NA	NA	Ϋ́	DMR/MOR	
Temperature	Ψ	NA	NA	NR	NA		Workday	Grab	MOR	
Turbidity	NTO	NA	NA	NA	NA	******	Workday	Grab	MOR	

TABLE A - CONDITIONS

Footnotes:

¹ The discharge shall meet 25 mg/l and 15% of the average monthly influent CBOD₅ and 30 mg/l and 15% of the average monthly influent suspended solids (Table D, Monitoring Location G).

² The permittee shall record and report on the monthly operating report the minimum, maximum and total flow for each day of discharge and the average daily flow for each sampling month. The permittee shall report, on the discharge monitoring report, the average daily flow for each sampling month.

omorke

(a) The use of chlorine for disinfection shall be discontinued from October 1st through April 30th except that chlorination equipment may be started and tested no earlier than April 15th, and any residual chlorine gas or liquid may be used up until, but no later than, October 15th. During these times in April and October the total residual chlorine of the effluent shall not be greater than 1.5 mg/l, as an instantaneous limit, and 1.5 mg/l, as an analytical results shall be reported on the MOR for the months of April and October.

(b) The geometric mean of the fecal coliform bacteria values for the effluent samples collected in a period of thirty (30) consecutive days during the period from May 1st through September 30th shall not exceed 200 per 100 milliliters.

(c) The geometric mean of the fecal coliform bacteria values for the effluent samples collected in a period of seven (7) consecutive days during the period from May 1st through September 30th shall not exceed 400 per 100 milliliters.

(d) The Average Weekly discharge Limitation for CBODs and Total Suspended Solids shall be 1.5 times the Average Monthly Limit listed above.

TABLE B

Discharge Serial Number (DSN): 001-1				Monitoring Location:	1	
Wastewater Description: Secondary Treater		, , ,				·
Monitoring Location Description: Final Eff	luent Prior t	o Chlorination	1			
Allocated Zone of Influence (ZOI): 1,150 CF	S	,	In stream Waste	Concentration (IWC): 1	.0%(Allocated)	
PARAMETER	Units	Maximum Daily Limit	Sampling Frequency	Sample Type	Reporting form	Minimum Level Analysis See Section (
Antimony, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Aquatic Toxicity, Daphnia pulex 1	%		Quarterly	Daily Composite	ATMR/DMR	
Aquatic Toxicity, Pimephales promelas 1	%		Quarterly	Daily Composite	ATMR/DMR	
Arsenic, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Beryllium, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Cadmium, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Biochemical Oxygen Demand (5 day)	mg/l		Quarterly	Daily Composite	ATMR	
Chromium, Hexavalent	mg/l		Quarterly	Daily Composite	ATMR	*
Chromium, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Chlorine, Total Residual	mg/l		Quarterly	Daily Composite	ATMR	*
Copper, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Cyanide, Amenable	mg/l		Quarterly	Daily Composite	ATMR	
Cyanide, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Lead, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Mercury, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Nickel, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Nitrogen, Ammonia (total as N)	mg/l		Quarterly	Daily Composite	ATMR	
Nitrogen, Nitrate, (total as N)	mg/l		Quarterly	Daily Composite	ATMR	····
Nitrogen, Nitrite, (total as N)	mg/l		Quarterly	Daily Composite	ATMR	
Phenols, Total	mg/l		Quarterly	Daily Composite	ATMR	
Selenium, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Silver, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Solids, Total Suspended	mg/l		Quarterly	Daily Composite	ATMR	
Thallium, Total	mg/i		Quarterly	Daily Composite	ATMR	*
Zinc, Total	mg/l		Ouarterly	Daily Composite	ATMR	*

Remarks: The results of the Toxicity Tests are recorded in % survival, however, the permittee shall report pass/fail on the DMR based on criteria in Section 6(B) of this permit.

TABLE C

Discharge Serial Number: 001-1	Monitoring L	ocation: N		
Wastewater Description: Activate	ed Sludge			
Monitoring Location Description:	Each Aeration Tank Effluent			
DA DA MEMOR	REPORTING FORMAT	INSTANTANEC	OUS MONITORING	REPORTING
PARAMETER		Sample Frequency	Sample Type	FORM
Oxygen, Dissolved	High & low for each Workday	4/Workday	Grab	MOR
Sludge Volume Index	Workday	Workday	Grab	MOR
Mixed Liquor Suspended Solids	Workday	Workday	Grab	MOR

TABLE D

Discharge Serial Number: 001-1			Monitorin	g Location: G			
Wastewater Description: Sewage							
Monitoring Location Description: Influer	it After Preli	iminary Treatment					
		DMR REPORTING FORMAT		IME BASED ITORING	INSTANTA MONITO		REPORTING FORM
PARAMETER	Units	FORMAI	Sample Frequency	Sample Type	Sample Frequency	Sample Type	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	3/Week	Daily Composite	NA	NA	DMR/MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Total Kjeldahl	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Total	mg/l		Monthly	Daily Composite	NA	NA	NAR
Solids, Total Suspended	mg/l	Monthly average	3/Week	Daily Composite	NA	NA	DMR/MOR

TABLE E

Discharge Serial Number: 001-1			Monito	ring Location: P			
Wastewater Description: Primary Eff	luent						·
Monitoring Location Description: Prin	nary Settlin	g Tank Effluent		, , , , , , , , , , , , , , , , , , , ,			
		REPORTING FORMAT		FLOW BASED NITORING		TANEOUS TORING	REPORTING FORM
PARAMETER	Units		Sample Frequency	Sample Type	Sample Frequency	Sample type	
Alkalinity, Total	mg/l		NA	NA	Monthly	Grab	MOR
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	Weekly	Daily Composite	NA	NA	MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Total Kjeldahl	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Total	mg/l		Monthly	Daily Composite	NA	NA	NAR
Solids, Total Suspended	mg/l	Monthly average	Weekly	Daily Composite	NA	NA	MOR

TABLE F

Discharge Serial Number: 001-1	Monitoring Location: S		
Wastewater Description: Primary and Waste	Activated Sludge		-
Monitoring Location Description: Primary Slu	dge Pumps and Waste Act	ivated Sludge Pumps	
PARAMETER	INSTANTAN	EOUS MONITORING	REPORTING FORM
	Units	Grab Sample Freq.	
Arsenic, Total	mg/kg	Bi-monthly	DMR
Beryllium, Total	mg/kg	Bi-monthly	DMR
Cadmium, Total	mg/kg	Bi-monthly	DMR
Chromium, Total	mg/kg	Bi-monthly	DMR
Copper, Total	mg/kg	Bi-monthly	DMR
Lead, Total	mg/kg	Bi-monthly	DMR
Mercury, Total	mg/kg	Bi-monthly	DMR
Nickel, Total	mg/kg	Bi-monthly	DMR
Polychlorinated Biphenyls	mg/kg	Bi-monthly	DMR
Solids, Fixed	%	Bi-monthly	DMR
Solids, Total	%	Bi-monthly	DMR
Solids, Volatile	%	Bi-monthly	DMR
Zinc, Total	mg/kg	Bi-monthly	DMR

ATTACHMENT 2

MONTHLY OPERATING REPORT FORM AND NUTRIENT ANALYSIS REPORT

J: (stamped)	Aeration Tank #4 Aeration Tank #5	五 07 元 35mm	menso svi n.C. D.C. Miss svi n.C. D.C. D.C.	workday 4/workday workday	,																													
Date received: (stamped)	╽┟	∓ 2	mess svi D.C. I D.C.	workday 4/workday																														
	1	2 2	mg/	4/workday																														
	Aeration Tank #2	C C	MESS	ay workday																														
Chief Plant Operator: Phone: Permit expiration date:	Aeration Tank #1	O1 C0	E P																														_	
OEE	Aerati	NI CC		workday																														
Facility ID 119-001 0100480	Primary Sludge	% IV	solids	work day																													_	1
Rocky Hill MDC Facility I Sample month/year: Page 1 of MOR for permit # CT0100480	Daily Flow	May Min Total	mgd .	daily																														
Rocky I Sample n Page 1 of			Units	Fred	-	2	3	4	S	φ	^ °	0 0) <u>5</u>	1	12	13	14	15	16	17	18	19	8	21	ช	23	24	25	56	27	78	59	_	8

March Company Compan																													
Float Floa	표		E#	S.U.	work day																								
March Marc	0.0				work																								
March Marc	Fecal	Soliform	Ħ	#/100 m	3/week																								
H DO DO Store Store Store Do DO Store Store DO Store Store DO Store Store DO Store Store Store DO Store Store DO Store Store DO Store Store DO Store S			wo																								_	1	٦
H DO DO Store Store Store Do DO Store Store DO Store Store DO Store Store DO Store Store Store DO Store Store DO Store Store DO Store Store DO Store S	Chlorine	Residual	high	l _Q m	4/work day														 		 							1	\dashv
H LO			\dashv	ľgi																			_				\exists	\dashv	ᅦ
SVI DO DO SVICUE Svi	Chlorine	BS	+	\dashv	Daily																	\exists	_				1	\dashv	\dashv
Supplementary Supplement		1	<u> </u>	5	vork day								-												_		\dashv	1	╣
Supplementary Supplement	able Tu	\dashv	+	\dashv		Н					_												\dashv	_			\dashv	\dashv	ᅱ
All 10 10 10 10 10 10 10	$\overline{}$	တွ	Ü															_		 							4	_	
All 10 10 10 10 10 10 10	spil		-		3/w96																 	_					_		
All 10 10 10 10 10 10 10	nded So	Prim	苗	Į,	× eek																						_		_
All 10 10 10 10 10 10 10	Suspe	Ē	\perp		3/wee	_																							
All 10 10 10 10 10 10 10	l		ᇤ		3/wee																							Ш	
All 10 10 10 10 10 10 10) (5-day	Prim.	ᇤ	Mg/	weekly																								
ation Tank #6 Hi LO	1080	<u>=</u>			3/week																								
ation Tank #6 Hi LO	te	þe	indust	gal	day																								
## Beturn sludge Waste Dry solid	Was	accept	septic	gal	work																								
Hi LO Skilow Skoolids Skilogge SVI D.O. D.O. Skilow Skoolids Skilow Skoolids D.O. D.O. Skilow Skoolids D.O.	sp		out		ag																								
Aday Aworkday work day Aday Aworkday Aw	Dry sol		ء.	tons	work											:													
Aday Aworkday work day Aday Aworkday Aw	Waste	egpnJs	×1000	sql	work																								
Aworkday Water and Aworkday Aworkday Aworkday Aworkday			%solids		ay																						1		
Aworkday Water and Aworkday Aworkday Aworkday Aworkday	Return 3		%flow		work																								
# H DO. H Mg/l H Mg/l H H H H H H H H H		0	-		rkday										-												1		
SVI Kday Kday	9#3		\dashv	mg/l	4/wo																						_		
Aerat Miliss Work Work Work Work Work Work Work Work	ion Tank	1	-		day		-							ļ													1		
	Aerat		MLSS		work								\vdash	 	 -	 													

Page 3 of MOR for permit # CT0100480

Sludge Disposal Location:		Please return forms to:	DEP - Water Management ATTN: Municipal Wastewater Monitoring Coordinator	Municipal Facilities	79 Elm Street	Hartford, CT 06106-5127		Statement of Acknowledgement		I certify under penalty of law that this document	and all attachments were prepared under my	direction or supervision in accordance with a	system designed to assure that qualified	personnel properly gather and evaluate the	information submitted. Based on my inquiry	of the person or persons who manage the	system, or those persons directly responsible	for gathering the information, the information	submitted is, to the best of my knowledge and	belief, true, accurate, and complete. I am aware	that there are significant penalties for submitting	false information including the possibility of fine	and imprisonment for knowing violations.	Authorized Official:		Title:		Signature:		Date:	
Alkalinity	Prim Eff	mg/l	monthly																												
₹	Ë		-																			Î									
Temp.	Inf. Eff.	Ļ	workday				-		1	1		1						7													

Nutrient Analysis Report

for compliance with NPDES permit

Sampling Date __/___

pgu.

Flow Rate ___

ROCKY HILL WPCF (MDC) Permit # CT 0100480

	Raw Influent	ıfluent	Primary Effluent	Effluent	Final Effluent	ffluent	Plant Efficiency
Parameter	l/gm	lbs/day	l/gm	lbs/day	l/gm	lbs/day	%
Ammonia							
Nitrite							
Nitrate							
TKN							
Total Nitrogen = TKN + nitrite + nitrate							
Orthophosphates							
Total Phosphorus							

Notes: lbs/day = 8.34 x flow (mgd) x mg/l of pollutant
Flow = Total daily flow on sampling date (mgd)
Plant Efficiency = 100% x (raw influent – final effluent) / raw influent

DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Rocky Hill MDC

PAMS Company ID: 95020

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #:CT0100480 APPLICATION #: 200200511 FACILITY ID. 119-001

Mailing Address: P.O. Box 800	Location Address:
Street:	Street: 80 Goff Brook Lane
City: Hartford ST: CT Zip: 06142	City: Rocky Hill ST: CT Zip: 06067
Contact Name: Richard Ludwig	Contact Name: Edward Picard
Phone No.: (860) 278-7850 x3505	Phone No.: (860) 529-6850

PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR 30 YEAR

TYPE New Reissuance X Modification

CATEGORIZATION POINT (X) NON-POINT () GIS#

NPDES (X) PRETREAT () GROUND WATER(UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR(MA) X NPDES SIGNIFICANT MINOR <u>or</u> PRETREAT SIU (SI) NPDES <u>or</u> PRETREATMENT MINOR (MI)

 COMPLIANCE SCHEDULE
 YES_
 NO X

 POLLUTION PREVENTION____
 TREATMENT REQUIREMENT_

 WATER QUALITY REQUIREMENT ____
 OTHER

OWNERSHIP CODE

Private __ Federal __ State __ Municipal (town only) __ Other public X

DEP STAFF ENGINEER Rowland C. Denny

PERMIT FEES

ACTUAL I LLD				
	Discharge Code	DSN Number	Annual Fee	
	111000e	001-1	\$2,557.50	

FOR NPDES DISCHARGES

Drainage basin Code: 4000 Present/Future Water Quality Standard: C/B

NATURE OF BUSINESS GENERATING DISCHARGE

Publicly Owned Treatment Works

PROCESS AND TREATMENT DESCRIPTION (by DSN)

Secondary biological treatment and seasonal disinfection.

RESOURCES USED TO DRAFT PERMIT X Federal Effluent Limitation Guideline 40CFR 133 Secondary Treatment Category __ Performance Standards Federal Development Document name of category X Department File Information X Connecticut Water Quality Standards Anti-degradation Policy Coastal Management Consistency Review Form Other - Explain BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- X Secondary Treatment
- Case-by-Case Determination (See Other Comments)
- \underline{X} Section 22a-430-4(r) of the Regulations of Connecticut State Agencies
- In order to meet in-stream water quality (See General Comments)
- Anti-degradation policy

GENERAL COMMENTS

The need for inclusion of water quality based discharge limitations in this permit was evaluated consistent with Connecticut Water Quality Standards and criteria, pursuant to 40 CFR 122.44(d). Each parameter was evaluated for consistency with the available aquatic life criteria (acute and chronic) and human health (fish consumption only) criteria, considering the zone of influence allocated to the facility where appropriate. The statistical procedures outlined in the EPA Technical Support Document for Water Quality-based Toxics Control (EPA/505/2-90-001) were employed to calculate the need for such limits. Comparison of monitoring data and its inherent variability with the calculated water quality based limits indicates a low statistical probability of exceeding such limits. Therefore, no water quality based limits are included in the permit at this time.